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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/602,291	06/24/2003	Elizabeth A. Dauch	NEC0252US	1241	
33031	7590 04/06/2005		EXAMINER		
	STEPHENSON ASO OOD SPRINGS RD.	GURLEY, LYNNE ANN			
BLDG. 4, SUITE 201 AUSTIN, TX 78759			ART UNIT	PAPER NUMBER	
			2812	·	
			DATE MAILED: 04/06/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Advisory Action

Application No.	Applicant(s)
10/602,291	DAUCH ET AL.
Examiner	Art Unit
Lynne A. Gurley	2812

Defere the Eiling of an Annual Brief							
Before the Filing of an Appeal Brief	Examiner	Art Unit					
	Lynne A. Gurley	2812					
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress				
THE REPLY FILED 18 January 2005 FAILS TO PLACE THIS A	APPLICATION IN CONDITION FO	R ALLOWANCE.					
The reply was filed after a final rejection, but prior to filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:							
a) The period for reply expiresmonths from the mailing of	*		•				
b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO							
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Lensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have							
een filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.136(a) and the appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) bove, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any arned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL							
The reply was filed after the date of filing a Notice of App was filed on A brief in compliance with 37 CFR 4 Appeal (37 CFR 41.37(a)), or any extension thereof (37 CAPP Appeal has been filed, any reply must be filed within the	1.37 must be filed within two mont CFR 41.37(e)), to avoid dismissal of	ths of the date of filing of the appeal. Since a	g the Notice of				
AMENDMENTS B. The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brid	of will not be entered	bossuss				
 (a) ☐ They raise new issues that would require further co (b) ☐ They raise the issue of new matter (see NOTE belo (c) ☐ They are not deemed to place the application in be 	nsideration and/or search (see NC ow);	TE below);					
appeal; and/or (d)☐ They present additional claims without canceling a NOTE: (See 37 CFR 1.116 and 41.33(a)).		ejected claims.					
 The amendments are not in compliance with 37 CFR 1. Applicant's reply has overcome the following rejection(s 		ompliant Amendmen	t (PTOL-324).				
 Newly proposed or amended claim(s) would be a the non-allowable claim(s). 	·	-	_				
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proof The status of the claim(s) is (or will be) as follows: Claim(s) allowed:		vill be entered and an	explanation of				
Claim(s) objected to: Claim(s) rejected: <u>1-9</u> . Claim(s) withdrawn from consideration:							
AFFIDAVIT OR OTHER EVIDENCE							
 The affidavit or other evidence filed after a final action, b because applicant failed to provide a showing of good ar and was not earlier presented. See 37 CFR 1.116(e). 							
The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to a showing a good and sufficient reasons why it is necessar.	overcome <u>all</u> rejections under apperry and was not earlier presented.	eal and/or appellant fa See 37 CFR 41.33(d)	ails to provide a (1).				
10. The affidavit or other evidence is entered. An explanation of the control	on of the status of the claims after	entry is below or atta	ched.				
1. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.							
12. Note the attached Information Disclosure Statement(s).	(PTO/SB/08 or PTO-1449) Paper						
13.		Lynne A. Gurley	0				
`		Primary Patent Example 2812	aminer				

U.S. Patent and Trademark Office PTOL-303 (Rev. 9-04)

Continuation of 11, does NOT place the application in condition for allowance because: The Examiner takes the position that the Applicant's limitation in claim 1 calls for a "solution" to remove residual polymer. The broad term "solution" encompasses both organic and inorganic solvents. In Mautz, col. 5, lines 30-47; col. 6, lines 1-24, an inorganic masking layer solvent may be used safely, although at a much slower rate, to attack and remove residual polymer (col. 1, lines 37-50). Mautz clearly does not use ashing alone to remove residual polymer. Mautz' solution cleans the insulating layer 68 by etching it, clearly removing residual polymer which is inherently left behind by the interconnect etching step. Claim 1 does not state from where the residual polymer is removed, so that the residual polymer is not precluded from being removed from the insulating layer instead of from the interconnect. Tsai agrees with Mautz that organic solutions such as alkaline solvents (col.1, lines 49-60; col. 4, lines 1-13) are damaging for the metal structure. However, Tsai also states that ashing alone does not remove the polymer (col. 3, lines 40-43). A wet stripping step must be taken, and in particular, Tsai offers additional steps in the ashing step which relieve the harmful effects of a wet stripper, whether it is organic, or not. However, Tsai suggests that although an alkaline solvent may be typically used, it is not desirable (col. 4, lines 1-13). So, when taken in combination, both Mautz and Tsai agree that an additional cleaning step is imperative to remove the residual polymer, whether on the insulating layer, or on the interconnect. Both agree that alkaline solvents are harmful, and both aim to solve the same problem, which is to remove residual polymer form the same structure, whether on the insulating layer or on the interconnect. Therefore, the claimed "solution" and steps of the invention are disclosed well within the combination of both references and they are found to be complimentary and supportive of one another.